

MSG 201A - RED FD14 PAYLOAD SUMMARY

SPACEHAB

SPACEHAB subsystems are performing well. Module temperatures are expected to remain relatively steady between 73 and 76 °F for the remainder of the mission.

CM-2/MIST: The IFM to troubleshoot the MIST failure was very successful and the experiment can now proceed nominally. The entire MIST team and PI, as well as the CM-2 team, express their appreciation and many thanks to K.C. for the great effort and time she contributed to get the payload working again.

Com2Plex: The 48 hour run of the second loop has just completed. So far, the data look excellent.

Biopack continues to run with the incubator, cooler, and freezer switched off. The temperature inside the two culture chambers of the Bioreactors YSTRES-1 and YSTRES-2 was too high (30-40°C) for nominal cell growth. Switching off power had no significant effect on the temperature profile so YSTRES operations are no longer planned. CONNECT-1 and STROMA are resuming their operations since the incubator door can now be closed and the centrifuges switched-on.

FAST continues to operate nominally according to its preprogrammed sequence. They have completed another period of thermoregulation and are performing the next test sequence.

FREESTAR

The successful MEIDEX observation yesterday of a large smoke plume marked yet another first from space. The plume, created by biomass fires in Brazil, showed an important predicted weather and climate effect, where the plume "kills off" any cloudiness it encounters. More dust observations continue today. SOLSE and SOLCON are patiently waiting for their next observing periods. CVX completed its final planned critical period successfully, and will attempt to make one more pass through the critical temperature prior to mission end. LPT continues to gather more data during ground passes, testing additional capability of Marshall connectivity to LPT.